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S/170/62/005/010/002/009
B112/B186

STEP

AUTHORS: Chekhovskoy, V. Ya., Shumyatskiy, B. Ya., Yakimovich, K. A.

TITLE: Experimental investigation of tungsten enthalpy over the temperature range from 350 to 2000°C

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 5, no. 10, 1962, 13 - 18

TEXT: The enthalpy difference $i_t - i_0$ was experimentally determined by the mixing method (16 experiments). It has been found to vary linearly from 11.68 to 73.41 kcal/kg over the temperature range from 357.3 to 1964.0°C. The maximum error in these results was estimated at $\pm(0.6 - 0.9)\%$. The data obtained do not diverge from those of other authors by more than 1 % on the average. The experimental equipment consisted of a resistance furnace with a tungsten heater and a massive copper calorimeter in an isothermal jacket. The temperature of the sample was measured by platinum-rhodium-platinum thermocouples ($t < 1200^\circ\text{C}$) and an optical pyrometer ($t > 1000^\circ\text{C}$). There are 4 figures and 1 table.

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Experimental investigation of ...

ASSOCIATION: Institut vysokikh temperatur pri MEI, g. Moskva (Institute of High Temperatures of MEI, Moscow)

SUBMITTED: November 29, 1961

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